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Research Article

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The effect of age and material on the deterioration of chlorine separation in the water supply network using the qualitative-hydraulic model EPANET (II)

Published On: August 08, 2021 | Pages: 031 - 035

Author(s): Maryam Siamaki, Omid Zabihi, Reza Aghlmand and Mohammad Gheibi*

According to international and domestic standards, the concentration of free chlorine remaining in each node must be between certain values. In this way, the health of the water is guaranteed. Water sources are chlorinated after treatment and enter the water distribution network. Injected chlorine is reduced in this path by reacting with materials in the water (mass d ...

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Determining the chlorine kinetic behavior in surface water using evolutionary metaheuristic algorithms

Published On: July 14, 2021 | Pages: 026 - 030

Author(s): Farhad Mahmoudi Jalali, Seyyed Roohollah Masoomi, Mostafa Azizi, Reza Aghlmand, Mohammad Gheibi* and Zahra Kian

The use of a reliable technique in measuring the residual chlorine concentration is of particular importance. Because based on the results of these measurements, the water quality of the network is calculated and evaluated in terms of ensuring the health of the community. The concentration of residual chlorine in the effluent of the treatment plant decreases as water ...

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Economic evaluation of different biological municipal wastewater treatment

systems and implementation of AHP method based on operating costs

Published On: June 09, 2021 | Pages: 021 - 025

Author(s): Mohammad Gheibi*, Benyamin chahkandi, Hashem Kochakzadeh Dandansaz, Zahra Kian and Reza Aghlmand

In large cities, several hundred cubic meters of municipal wastewater is produced every day, which because of high levels of pollution, needs to be treated either for disposal or secondary use. Some of the most important indicators and pollutants that should be reduced to the standard range are VOC, TSS, TDS, BOD5, nitrogen, phosphorus, heavy metals, and pathogens. Wa ...

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Damage model of turbine rotor based on DPLS

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Author(s): Chao Dong, Wei Qin and Yongjian Sun*

In today's society, the development of electric power industry is one of the important conditions for the economic construction of a country. Therefore, it is of great theoretical significance and value to carry out the research on the damage assessment of turbine rotor. The damage of the turbine rotor is directly related to the process quality, material performance, o ...

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Redox regulation of adventitious root formation through downstream changes in hormonal system in mung bean [*Vigna radiata* (L.) R. Wilczek]

Published On: January 28, 2021 | Pages: 005 - 012

Author(s): Durga Kora and Soumen Bhattacharjee*

Redox regulation on plant morphogenetic process of Adventitious Rooting (AR) can be vouched from the experimental data of redox manipulated salicylic acid treated hypocotyl explants of mung bean. In our previous work, application of pro-oxidant H₂O₂ (500 µM) followed by salicylic acid (SA, 600 µM) have been shown to significantly augment Adventitious Root Formation (A ...

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In vitro cultivation of *Leishmania donovani* promastigotes: Growth potential of human urine as replacement of fetal calf serum

Published On: January 22, 2021 | Pages: 001 - 004

Author(s): Abdalla Hassan Sharief*, Eltahir Awad GAsim Khalil and Suad M Suliaman

In vitro cultivation of *Leishmania* parasites plays an important role in diagnosis and treatment of leishmaniasis and in vaccine and drug development studies. There is no information about the effects of urine within culture on the infectivity of *Leishmania* parasites. In this study we used two culture media with different overlays to enhance the in vitro growth rates

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